



CHINA INTERNATIONAL CO.
SHENZHEN FURUIER PHOTOELECTRIC CO., LTD.

SPECIFICATION FOR APPROVAL

CUSTOMER : Oomlout

ARTICLE : $\phi 5$ Round Color diffused Green LED

PART NO : FLR-50A04-PG5

DATE : 2009-07-10

CUSTOMER MODEL:

RoHS PRODUCT

Authorized Signature



ATTENTION
OBSERVE PRECAUTIONS
ELECTROSTATIC
SENSITIVE DEVICES

☐ Absolute Maximum Rating

Item	Symbol	Absolute Maximum Rating	Unit
Forward Current	IF	20	mA
Peak Forward Current	IFP	120	mA
Reverse Voltage	VR	5	V
Power Dissipation	PD	80	mW
Operation Temperature	Topr	-35~+80	℃
Storage Temperature	Tstg	-40~+80	℃
Lead Soldering Temperature	Tsol	Max. 260° for 3sec Max.	

*IFP Conditions:Pulse Width≤10msec duty≤1/10

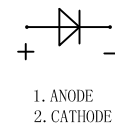
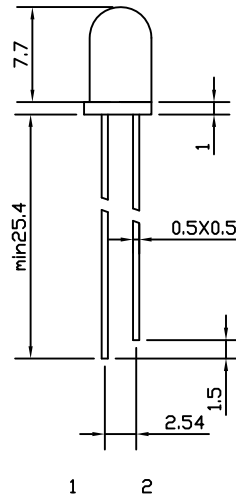
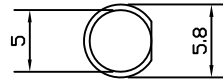
*Tsol Conditions:4mm from the base of the epoxy bulb

☐ Typical Optical/Electrical Characteristics

Item	Symbol	Condition	Min.	Typ.	Max.	Unit
Forward Voltage	VF	IF=20mA	—	3.1	3.6	V
Reverse Current	IF	VR=5V	—	—	10	uA
50% Power Angle	2 θ 1/2	IF=20mA	—	25	—	deg
Luminous Intensity	IV	IF=20mA	3500	6500	—	mcd
Peak Wavelength	λ p	IF=20mA	520	523	525	—
Recommend Forward Current	IF(rec)	—	—	10~20	—	mA

Notes:

- 1.Absolute maximum ratings Ta=25° C .
- 2.Tolerance of measurement of forward voltage±0.1V.
- 3.Tolerance of measurement of peak Wavelength±2.0nm.
- 4.Tolerance of measurement of luminous intensity±15%.

☐ Package Dimensions And Materials

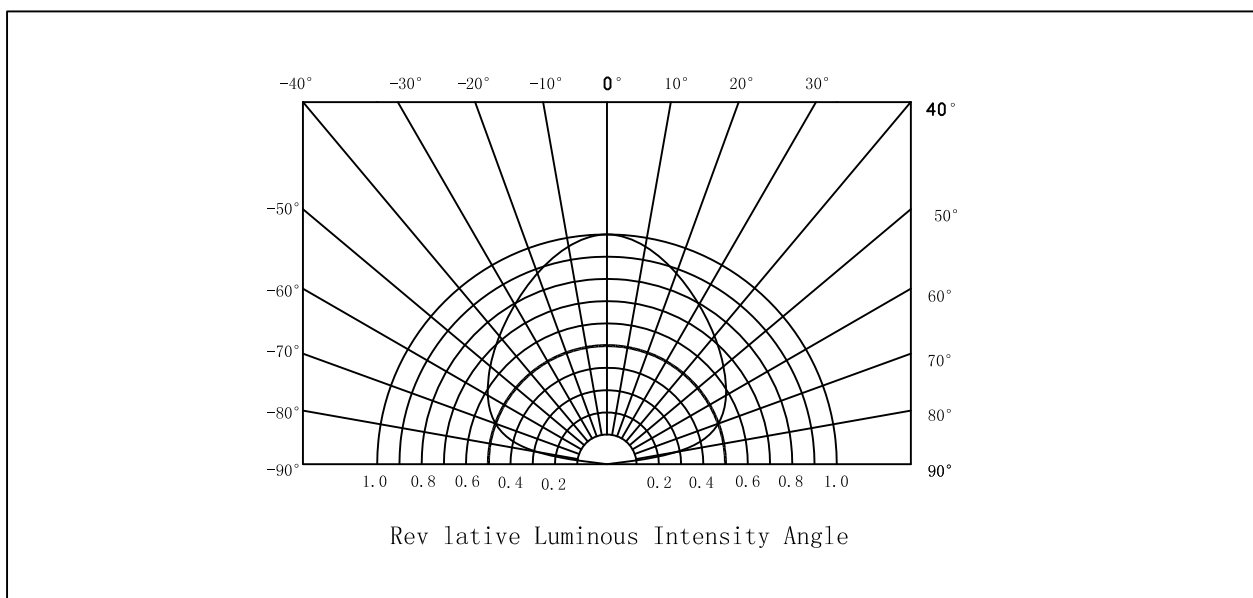
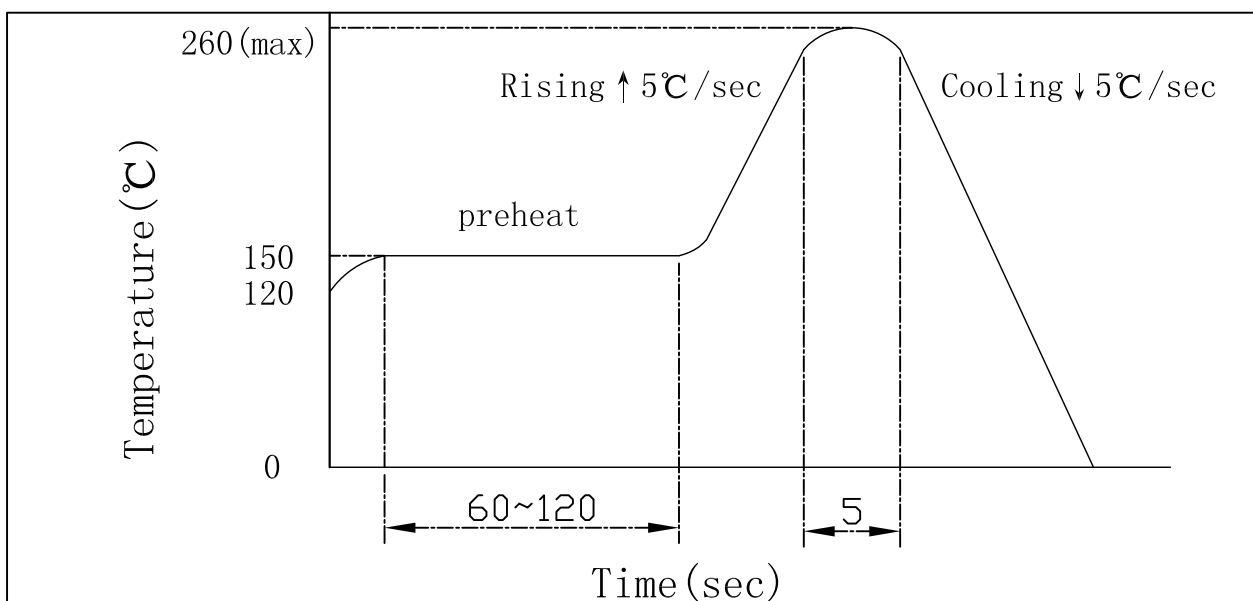
1. ANODE
2. CATHODE

☐ 0.5 SQUARE*2

Chip		Lens Color
Dice Material	Emitting Color	
InGaN	Green	COLOR DIFFUSED

Notes:

- 1.All dimension units are millimeters
- 2.All dimension tolerance is $\pm 0.2\text{mm}$ unless otherwise noted
- 3.An epoxy meniscus may extend about 1.5mm down the leads
- 4.Burr around bottom of epoxy may be 0.5mm max

☐ Spatial Distribution☐ Reflow Temp/Time☐ Soldering iron

Basic spec is $\leq 5\text{sec}$ when 260°C . If temperature is higher, time should be shorter (+ 10°C -1sec) Power dissipation of iron should be smaller than 15W, and temperatures should be controllable. surface temperature of the device should be under 230°C